

What is claimed is:

1. A leg assembly for electric home appliances, comprising:
a leg bolt having a screw coupled with an electric home appliance and a head
5 provided at an end thereof;
a pad made of a soft material, the pad closely adhered to the head and being in
contact with a floor; and
at least one holder coupled with the head and fixing the head and the pad by
pressing the pad to the head.
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2. The leg assembly claimed in the claim 1, wherein the head comprises:
a flat head provided at an end of the screw; and
a platform projected from a center of the flat head.
- 15 3. The leg assembly for electric home appliances claimed in the claim 2,
wherein the flat head is formed in a round plate form.
4. The leg assembly for electric home appliances claimed in the claim 1, further
comprising an angled head provided between the screw and the head and having an
20 angled outer circumferential surface.
5. The leg assembly for electric home appliances claimed in the claim 1,
wherein the pad comprises:
an edge fixed to the head by the holder; and
25 a center more projected than the edge and being in contact with the floor.

6. The leg assembly for electric home appliances claimed in the claim 1,
further comprising:

at least one groove provided on at least one of either the head or the pad; and
5 a projection provided on at least one of either the head or the pad, and inserted
into the groove.

7. The leg assembly for electric home appliances claimed in the claim 6,
wherein the groove and the projection are provided in a long form.

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8. The leg assembly for electric home appliances claimed in the claim 6,
wherein the groove and the projection are separately provided from a rotation center of
the leg bolt.

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9. The leg assembly for electric home appliances claimed in the claim 1, further
comprising:

at least one groove provided on at least one of either a circumferential surface
of the head or an inner surface of the holder; and

at least one projection provided on at least one of either the circumferential
20 surface of the head or the inner surface of the holder, and inserted into the groove.

10. The leg assembly for electric home appliances claimed in the claim 9,
wherein the groove or the projection is provided between the hooks.

11. The leg assembly for electric home appliances claimed in the claim 1, the holder comprises:

a through hole passing through a center of the pad;

a bottom 바닥부 closely adhered to the edge of the pad; and

5 a plurality of hooks extended from the bottom and caught by a side of the head and supported in a state that the bottom presses the edge.

12. The leg assembly for electric home appliances claimed in the claim 11, wherein the hook is projected from the to the inner surface of the side wall to the inner
10 space of the holder.

13. The leg assembly for electric home appliances claimed in the claim 11, wherein distance between the bottom and the hook is smaller than a sum of thickness of the edge and thickness of the head.

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14. The leg assembly for electric home appliances claimed in the claim 11, wherein the holder further comprises at least one projection projected from the bottom for pressing the edge with a large pressure.

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15. The leg assembly for electric home appliances claimed in the claim 14, wherein a plurality of the projections is arranged around the through hole at same interval.

16. The leg assembly for electric home appliances claimed in the claim 1 or 11, wherein the holder is made of a hard material and has an angled outer circumferential surface.

5 17. The leg assembly for electric home appliances claimed in the claim 11, wherein the holder further comprises an opening provided at a coupling part of the bottom and the side wall for easily opening a portion of the side wall, the portion having the hook, when the holder is assembled to the head.

10 18. The leg assembly for electric home appliances claimed in the claim 17, wherein the opening is provided on a perpendicular projection area of the hook.

19. The leg assembly for electric home appliances claimed in the claim 17, wherein the holder comprises an inner holder and an outer holder assembled at both
15 sides of the head and fixing the pad to the head.

20. The leg assembly for electric home appliances claimed in the claim 17, wherein the inner holder is provided to the edge of the pad, and a first side of the outer holder supports the head and a second side of thereof supports the inner holder.

20 21. The leg assembly for electric home appliances claimed in the claim 17, further comprising:

at least one groove provided on at least one of either the circumferential surface of the head or the inner surface of the inner holder; and

at least one projection provided on at least one of either the circumferential surface of the head or the inner surface of the inner holder.

22. The leg assembly for electric home appliances claimed in the claim 19,
5 wherein the inner holder is made of a hard material and has an angled outer circumferential surface.

23. The leg assembly for electric home appliances claimed in the claim 22,
wherein the outer holder is made of a hard material and has the angled inner
10 circumferential surface of the inner holder, the angled inner surface being engaged with the angled outer circumferential surface of the inner holder.

24. The leg assembly for electric home appliances claimed in the claim 19,
wherein the outer holder is made of a hard material and having an angled outer
15 circumferential surface.

25. The leg assembly for electric home appliances claimed in the claim 19,
wherein the inner holder comprises:
a through hole through which the center of the pad passes through in a middle
20 thereof;

a bottom covering the edge of the pad; and

a side wall extended from a circumference of the bottom and covering the outer circumferential surface of the pad and the head.

26. The leg assembly for electric home appliances claimed in the claim 25, wherein the inner holder further comprises at least one projection projected from the bottom for pressing the edge with a large pressure.

5 27. The leg assembly for electric home appliances claimed in the claim 26, wherein a plurality of projections is arrayed around the through hole at same intervals.

28. The leg assembly for electric home appliances claimed in the claim 19, wherein the outer holder comprises:

10 a bottom having a through hole through which the screw passes in a center thereof, and being supported by a side of the head; and

 a side wall extended from the circumferential surface of the bottom and having a plurality of hooks being supported by the inner holder in a state that the inner holder presses the edge of the pad.

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29. The leg assembly for electric home appliances claimed in the claim 28, wherein the hook is projected from the inner surface of the side wall to the inner space of the outer holder.

20 30. The leg assembly for electric home appliances claimed in the claim 28, wherein distance between the bottom and the hook is smaller than a sum of thickness of the edge and thickness of the head.

31. The leg assembly for electric home appliances claimed in the claim 28, wherein the outer holder comprises at least one opening provided at a coupling part of the bottom and the side wall.

5 32. The leg assembly for electric home appliances claimed in the claim 31, wherein the opening is provided on a perpendicular projection area of the hook.

33. A leg assembly for electric home appliances, comprising:
a leg bolt having a screw coupled with an electric home appliance, and a head
10 having a flat head provided at an end of the screw and a platform projected from the center of the flat head;
a pad, made of a soft material, including an edge fixed at the flat head by the holder, and a center portion closely adhered to the platform, more projected than the edge, and being in contact with a floor; and
15 a side wall including a bottom having a through hole through which the center passes in a center thereof, and a floor closed adhering the edge to the flat head, and a plurality of hook extended from the bottom and caught to be supported by a side of the head in a state that the bottom presses the edge.

20 34. The leg assembly for electric home appliances claimed in the claim 33, wherein holder is made of a soft material and has an angled outer circumferential surface.

35. The leg assembly for electric home appliances claimed in the claim 33, wherein the holder further comprises at least one projection projected from the bottom for pressing the edge with a large pressure.

5 36. The leg assembly for electric home appliances claimed in the claim 33, further comprising a first rotation protector provided between the head and the pad for preventing the pad from being rotated on the head.

37. The leg assembly for electric home appliances claimed in the claim 36,
10 wherein the first rotation protector comprises:

at least one groove provided at least one of either the platform or the center;
and

at least one projection provided at least one of either the platform or the center,
and inserted into the groove.

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38. The leg assembly for electric home appliances claimed in the claim 33, further comprising a second rotation protector provided at the head and the holder for preventing the holder from being rotated on the head.

20 39. The leg assembly for electric home appliances claimed in the claim 38, wherein the second rotation protector comprises:

at least one groove provided on at least one of either the circumferential surface of the flat head or the inner surface of the side wall; and

at least one projection provided on at least one of either the circumferential surface of the flat head or the inner surface of the side wall, and inserted into the groove.

5 40. The leg assembly for electric home appliances claimed in the claim 33, further comprising an opening provided at a coupling part of the bottom and the side wall for easily opening a portion of the side wall, the portion having the hook, when the holder is assembled to the head.

10 41. A leg assembly for electric home appliances, comprising:

a leg bolt having a screw coupled with an electric home appliance, and a head having a flat head provided at an end of the screw and a platform projected from the center of the flat head;

15 a pad, made of a soft material, including an edge fixed at the flat head by the holder, and a center portion closely adhered to the platform, more projected than the edge, and being in contact with a floor; and

an inner holder including a side wall including a hole through which the center passes in a center thereof, a first bottom having for covering the edge of the pad, and a first side wall extended from a circumferential surface of the first bottom and covering the pad and the circumferential surface of the head; and

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an outer holder including a second side wall having a second bottom and a plurality of hooks, the second bottom having a hole through which the screw passes in a center thereof and supporting a side of the head, and the plurality of hooks extended from the circumferential surface of the second bottom and supporting the inner holder in a state that the inner holder presses the edge.

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42. The leg assembly for electric home appliances claimed in the claim 41, wherein the outer holder is made of a hard material and having an angled outer circumferential surface.

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43. The leg assembly for electric home appliances claimed in the claim 41, further comprising a first rotation protector provided between the head and the pad for preventing the pad from being rotated on the head.

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44. The leg assembly for electric home appliances claimed in the claim 43, wherein the first rotation protector comprises:

at least one groove provided to at least one of either the platform or the center;

and

at least one projection provided to at least one of either the platform or the center, and inserted into the groove.

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45. The leg assembly for electric home appliances claimed in the claim 41, further comprising a third rotation protector provided at the head and the inner holder for preventing the inner holder from being rotated on the head.

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46. The leg assembly for electric home appliances claimed in the claim 45, wherein the third rotation protector comprises:

at least one groove provided on at least one of either the circumferential surface of the flat head or the inner surface of the side wall; and

at least one projection provided on at least one of either the circumferential surface of the flat head or the inner surface of the side wall, and inserted into the groove.

5 47. The leg assembly for electric home appliances claimed in the claim 41, further comprising a fourth rotation protector provided at the holder and the outer holder for preventing the outer holder from being rotated on the inner holder.

10 48. The leg assembly for electric home appliances claimed in the claim 47, wherein the fourth rotation protector comprises an angled outer circumferential surface provided at the inner holder; and

an angled inner circumferential surface provided at the outer holder for being engaged with the angled outer circumferential surface of the inner holder.

15 49. The leg assembly for electric home appliances claimed in the claim 41, further comprising an opening provided at a coupling part of the bottom and the side wall for easily opening a portion of the side wall, the portion having the hook, when the holder is assembled to the head.